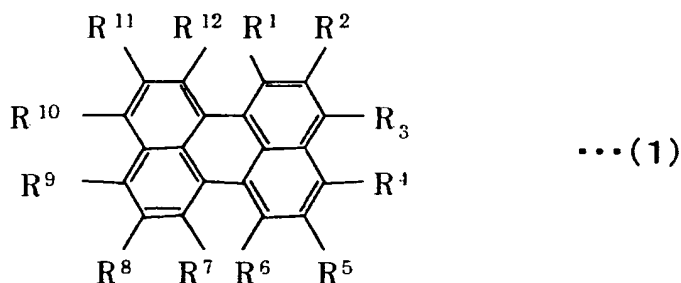


Submission under CFR 1.114  
Application No. 10/801,546  
Attorney Docket No. 042122

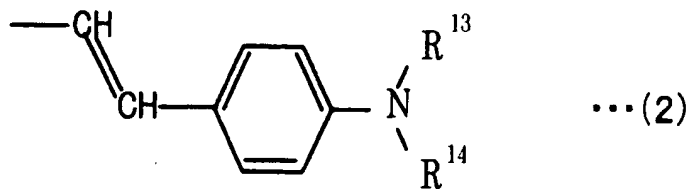
### AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

1. (Currently Amended): A fluorescent material comprising ~~either one or both of a perylene compound represented by formula (1) below and an anthanthrene compound represented by formula (101) below:~~

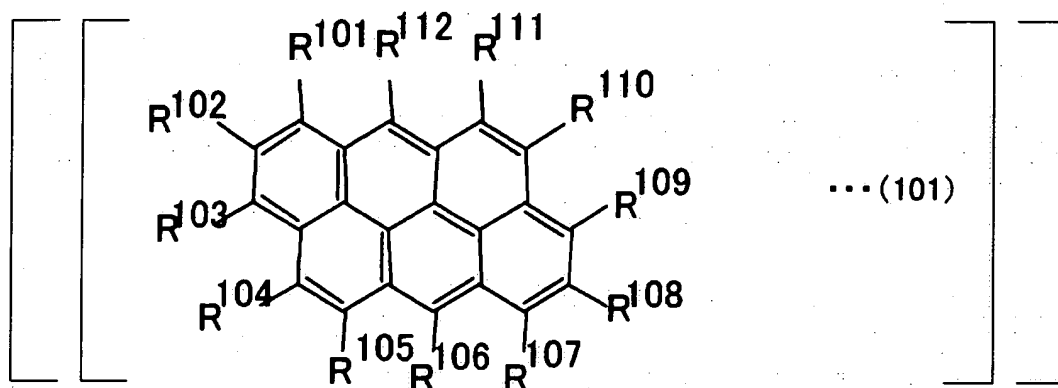


(in formula (1), two or more of  $R^{1-12}$ , each, have a structure represented by formula (2) below, with the rest being hydrogen),

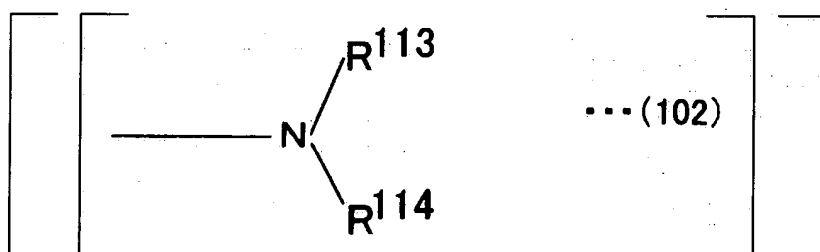


(in formula (2),  $R^{13}$  and  $R^{14}$  are, independently from each other, an aromatic group that may be substituted, or an aliphatic group that may be substituted, wherein  $R^{13}$  and  $R^{14}$  may be bonded with

each other, directly or via a bonding group), and



(in formula (101), four of R<sup>101-112</sup>, each, have a structure represented by formula (102) below, with the rest being hydrogen),



(in formula (102), R<sup>113</sup> and R<sup>114</sup> are, independently from each other, a phenyl or naphthyl group that has a substituent group selected from the class consisting of an aryl group, an alkoxy group, an aryloxy group, a dialkylamino group and a diarylamino group, and the substituent group may also be substituted, wherein R<sup>113</sup> and R<sup>114</sup> may be bonded with each other, directly or via a bonding group).

2. (Original): A fluorescent material according to claim 1, wherein two of said R<sup>1-12</sup> has a

structure represented by formula (2), with the rest being hydrogen.

3. (Cancelled).

4. (Currently Amended): A fluorescent material according to claim 2, wherein said  $R^{13}$  and  $R^{14}$  are, independently from each other, a phenyl or naphthyl group that may be substituted.

5. (Previously Presented): A fluorescent material according to claim 4, wherein said phenyl group or naphthyl group, of  $R^{13}$  and  $R^{14}$ , has a substituent group selected from the class consisting of an alkyl group, an aryl group, an alkoxy group, an aryloxy group, a dialkylamino group and a diarylamino group, and the substituent group may also be substituted.

6. (Cancelled).

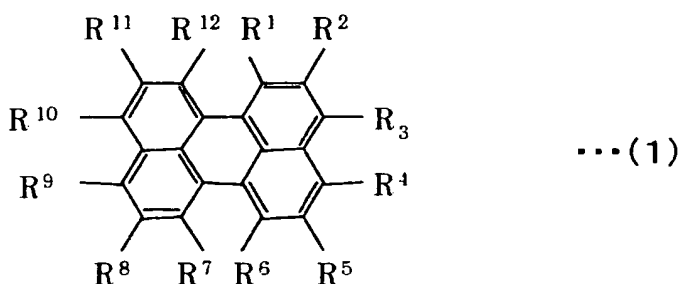
7. (Cancelled).

8. (Previously Presented): A fluorescent material according to claim 4 for use as an organic light-emitting layer forming material for an organic electroluminescent element.

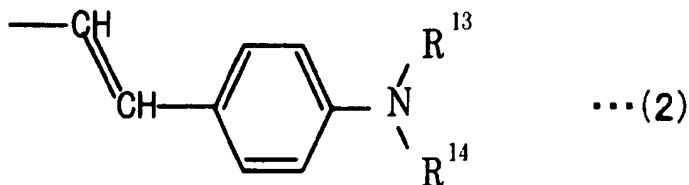
9. (Original): A fluorescent material according to claim 8 for use as an organic light-emitting layer forming material in the capacity of a host or a guest for an organic electroluminescent element.

10. (Previously Presented): An organic electroluminescent element having an organic light-emitting layer between an anode and a cathode, said organic light-emitting layer comprising a fluorescent material according to one of claims 1, 2, 4 and 5.

11. (Original): An organic electroluminescent element having an organic light-emitting layer between an anode and a cathode, said organic light-emitting layer using a perylene compound represented by formula (1) below as a fluorescent material:



(in formula (1), two of  $R^{1-12}$ , each, have a structure represented by formula (2) below, with the rest being hydrogen),



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(in formula (2),  $R^{13}$  and  $R^{14}$  are, independently from each other, an aromatic group that may be substituted, or an aliphatic group that may be substituted, wherein  $R^{13}$  and  $R^{14}$  may be bonded with each other, directly or via a bonding group).

12. (Original): An organic electroluminescent element according to claim 11, wherein said  $R^{13}$  and  $R^{14}$  are, independently from each other, a phenyl or naphthyl group that may be substituted.

13. (Original): An organic electroluminescent element according to claim 12, wherein, said phenyl group or naphthyl group has a substituent group selected from the class consisting of an alkyl group, an aryl group, an alkoxy group, an aryloxy group, a dialkylamino group and a diarylamino group, and the substituent group may also be substituted.

14. (Cancelled).

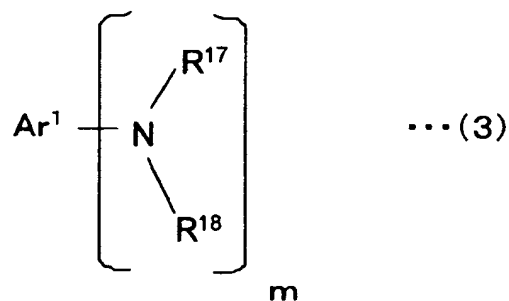
15. (Cancelled).

16. (Cancelled).

17. (Original): An organic electroluminescent element according to claim 10, wherein said fluorescent material is an organic light-emitting layer forming material in the capacity of a host or a guest.

18. (Currently Amended): An organic electroluminescent element according to one of claims 11 to [[16]] 13, wherein said fluorescent material is an organic light-emitting layer forming material in the capacity of a host or a guest.

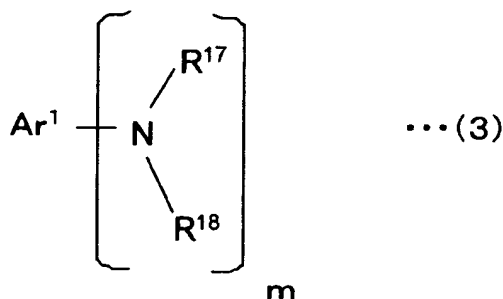
19. (Currently Amended): An organic electroluminescent element according to claim 10, wherein said organic light-emitting layer comprises a mixture of said fluorescent material and an aromatic amine compound represented by formula (3) below as an organic light-emitting layer forming material:



(in formula (102),  $\text{R}^{113}$  and  $\text{R}^{114}$  are, independently from each other, an aromatic group that may be substituted, or an aliphatic group that may be substituted, wherein  $\text{R}^{113}$  and  $\text{R}^{114}$  may be bonded with

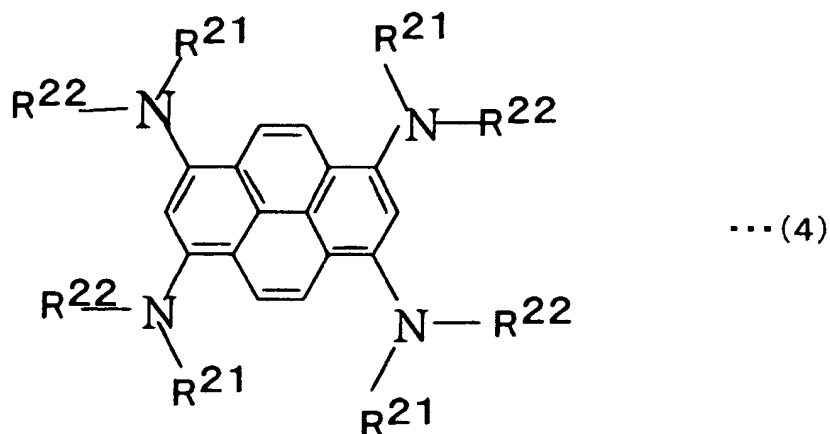
each other, directly or via a bonding group wherein Ar<sup>1</sup> is an aromatic group with a bonding valency of 2, 3 or 4 that may be substituted; R<sup>17</sup> and R<sup>18</sup> are, independently from each other, a monovalent aromatic group that may be substituted; and m is an integer of 2-4).

20. (Currently Amended): An organic electroluminescent element according to one of claims 11 to [[16]] 13, wherein said organic light-emitting layer comprises a mixture of said fluorescent material and an aromatic amine compound represented by formula (3) below as an organic light-emitting layer forming material:



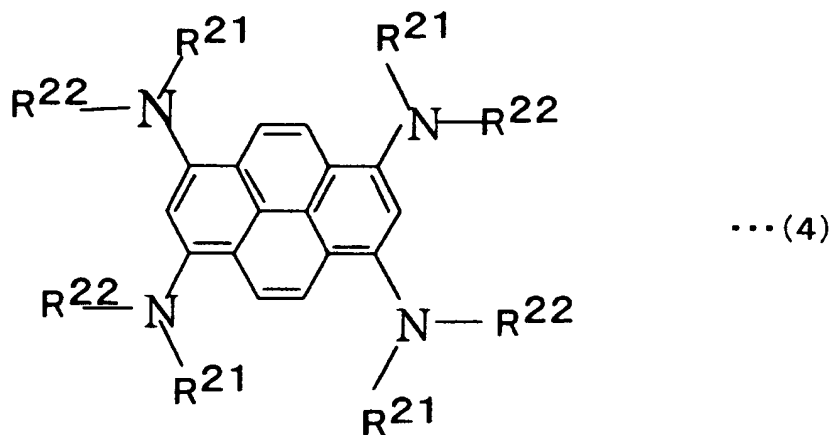
(wherein Ar<sup>1</sup> is an aromatic group with a bonding valency of 2, 3 or 4 that may be substituted; R<sup>17</sup> and R<sup>18</sup> are, independently from each other, a monovalent aromatic group that may be substituted; and m is an integer of 2-4).

21. (Original): An organic electroluminescent element according to claim 19, wherein said aromatic amine compound represented by formula (3) is a tetra(diarylamino)-substituted pyrene represented by formula (4) below:



(wherein  $R^{21}$  and  $R^{22}$  are, independently from each other, a monovalent aromatic group).

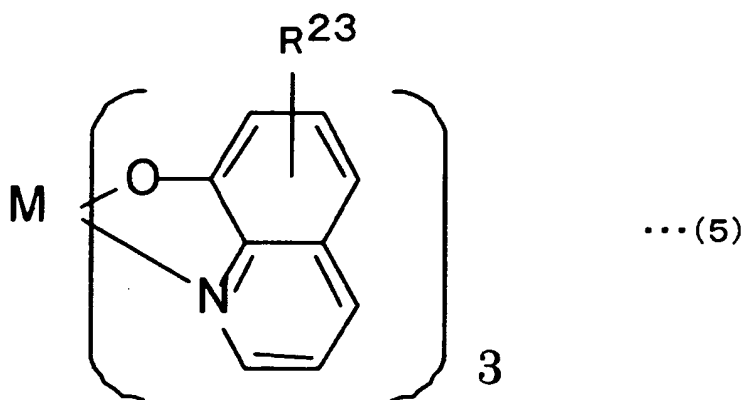
22. (Original): An organic electroluminescent element according to claim 20, wherein said aromatic amine compound represented by formula (3) is a tetra(diarylamino)-substituted pyrene represented by formula (4) below:



(wherein  $R^{21}$  and  $R^{22}$  are, independently from each other, a monovalent aromatic group).

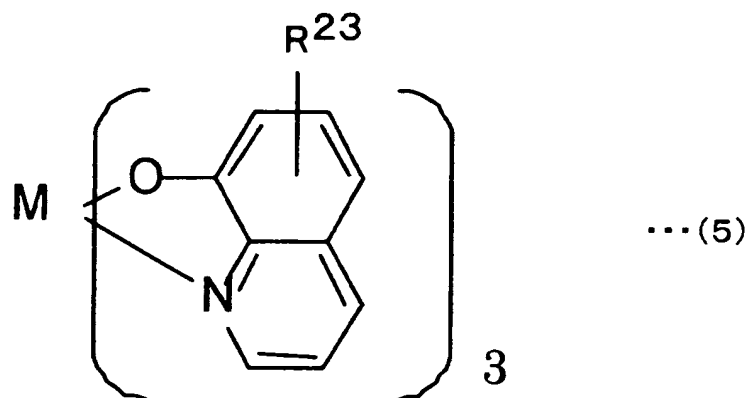


23. (Original): An organic electroluminescent element according to claim 10, wherein said organic light-emitting layer comprises, as an organic light-emitting layer forming material, a mixture of said fluorescent material and a hydroxyquinoline complex represented by formula (5) below:



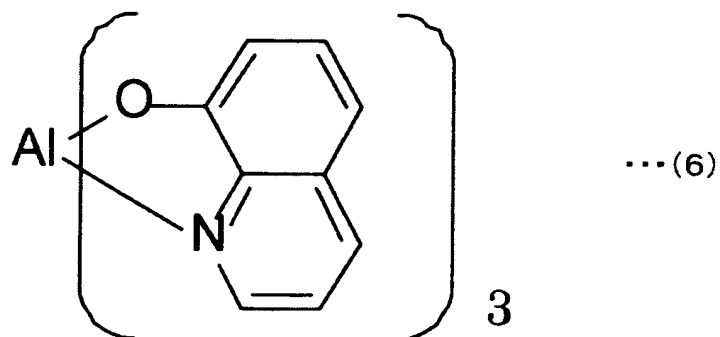
(wherein R<sup>23</sup> is hydrogen or an alkyl group that may be substituted; and M is a metal having a valency of 3).

24. (Currently Amended): An organic electroluminescent element according to one of claims 11-[[16]] 13, wherein said organic light-emitting layer comprises, as an organic light-emitting layer forming material, a mixture of said fluorescent material and a hydroxyquinoline complex represented by formula (5) below:

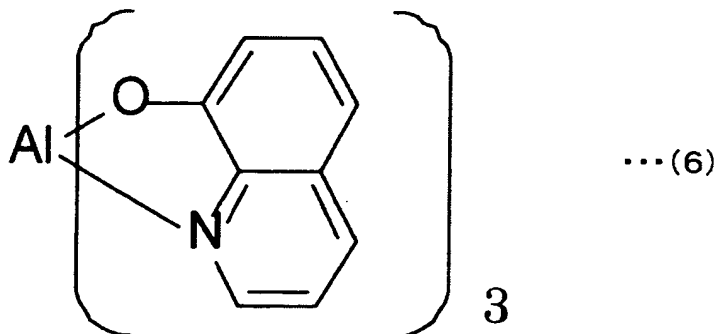


(wherein  $R^{23}$  is hydrogen or an alkyl group that may be substituted; and M is a metal having a valency of 3).

25. (Original): An organic electroluminescent element according to claim 23, wherein said hydroxyquinoline complex is an aluminum hydroxyquinoline complex represented by formula (6) below:



26. (Original): An organic electroluminescent element according to claim 24, wherein said hydroxyquinoline complex is an aluminum hydroxyquinoline complex represented by formula (6) below:



27. (Original): An organic electroluminescent element according to claim 10, wherein said organic light-emitting layer consists of a single layer of a fluorescent material.

28. (Currently Amended): An organic electroluminescent element according to one of claims 11 to ~~[[16]]~~ 13, wherein said organic light-emitting layer consists of a single layer of a fluorescent material.

29. (Original): An organic electroluminescent display using an organic electroluminescent element according to claim 10.

30. (Currently Amended): An organic electroluminescent display using an organic electroluminescent element according to one of claims 11 to ~~[[16]]~~ 13.

31. (Original): An organic electroluminescent display using an organic electroluminescent element according to claim 18.

32. (Original): An organic electroluminescent display using an organic electroluminescent element according to claim 20.

33. (Original): An organic electroluminescent display using an organic electroluminescent element according to claim 22.

34. (Original): An organic electroluminescent display using an organic electroluminescent element according to claim 24.

35. (Original): An organic electroluminescent display using an organic electroluminescent element according to claim 26.

36. (Original): An organic electroluminescent display using an organic electroluminescent element according to claim 28.